

Abstract

CONCATENATION OF CONTAINERS IN SYNCHRONOUS DIGITAL HIERARCHY NETWORK

5 A method of transmitting OSI layer 2 datacoms data by direct incorporation into a plurality of synchronous digital hierarchy virtual containers is disclosed, in which a higher bit rate OSI layer 2 data frame is multiplexed into a plurality of lower bit rate SDH (or SONET) virtual containers, which are transmitted simultaneously and in parallel over a synchronous communications network. The plurality of virtual containers are virtually concatenated by association of the 10 payloads of the plurality of virtual containers. Re-assembly of the OSI layer 2 data frames from a plurality of virtually concatenated VCs is achieved by storing each received VC payload corresponding to an OSI layer 2 data frame in a corresponding respective memory location, and alternately reading interleaved bytes from the plurality of payloads under control of a plurality of read pointers.

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